



November 5, 1999
Project No. 97664V3

PROVIDING

- Geotechnical Engineering
- Construction Materials Testing
- Environmental Site Assessments
- Drilling Services

Ms. Brenda Pohlmann
Nevada Division of Environmental Protection
555 E. Washington, Suite 4300
Las Vegas, NV 89101-1049

RE: Results of monthly surface water sampling of the Las Vegas Wash at the Northshore Road bridge.

Dear Ms. Pohlmann:

Per your request, Geotechnical & Environmental Services, Inc. (GES) obtained a surface water sample from the Las Vegas wash on October 29, 1999 near the Northshore Road Bridge. We sent this sample, under chain-of-custody protocol, to NEL Laboratories (NEL) for laboratory analysis of perchlorate. NEL's analysis revealed a perchlorate concentration of 760 micrograms per Liter ($\mu\text{g/L}$). The NEL report is included with this letter, along with a 1999 Perchlorate Summary Table.

An addition to the sample we collected and submitted to NEL, a split sample was collected per the request of Mr. Kevin Mayer, with the US Environmental Protection Agency (USEPA). This split sample was collected at the same time and in the same manner as the sample submitted to NEL, and was sent, under chain-of-custody protocol, to the USEPA Laboratory in Richmond, California.

Our services were performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable engineering firms in this or similar localities. No other warranty, either express or implied, is included or intended in this report. We appreciate this opportunity to provide our

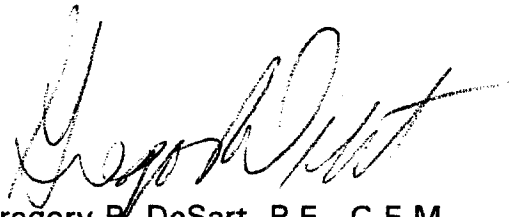
services. If you have any questions regarding these results, please feel free to call us at 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.



Daniel C. Burns, C.E.M. *
(Expires 10/07/2001)
Project Manager



Gregory P. DeSart, P.E., C.E.M.
C.E.M. (Expires 12/22/2000)
President

* "I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances."

jlk

Enc: NEL Analytical Report
1999 Perchlorate Summary Table

Dist: faxed to addressee at 486-2863
1 original mailed to addressee
cc to Jeff Gibson, American Pacific
cc to Kevin Mayer, USEPA SFD 72, 75 Hawthorne Street, San Francisco, CA 94105
cc to project file 97664V3

**Las Vegas Wash at Northshore Road Bridge
1999 Summary of Perchlorate Concentrations**

Date Sampled	Perchlorate (µg/L)
1/15/99	580
1/29/99	670
2/12/99	600
2/25/99	680
3/26/99	670
4/30/99	180
5/27/99	950
6/25/99	700
7/22/99	710
8/26/99	710
9/26/99	820
10/29/99	760

NEL LABORATORIESReno • Las Vegas
Phoenix • So. CaliforniaLas Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: Geotechnical & Env. Serv.
7560 West Sahara Ave. #101
Las Vegas, NV 89117
ATTN: Dan Burns

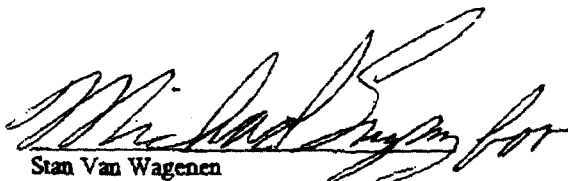
PROJECT NAME: FPF/97664 V3
PROJECT NUMBER: 97664 V3

NEL ORDER ID: L9910344

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/29/99.

Should you have any questions or comments, please feel free to contact our Client Services department at (702) 657-1010.


Stan Van Wageningen
Laboratory Manager

11/4/99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: Geotechnical & Env. Serv.
PROJECT ID: FPF/97664 V3
PROJECT #: 97664 V3

CLIENT ID: North Shore Road Bridge
DATE SAMPLED: 10/29/99
NEL SAMPLE ID: 19910344-01

TEST: Inorganic Non-Metals
MATRIX: Aqueous

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	760	80.	20	CA DHSM - IC	µg/L	11/1/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: Geotechnical & Env. Serv.
PROJECT ID: FPF/97664 V3
PROJECT #: 97664 V3
TEST: Non-Metals

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 110199-CLO4-BLK

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Perchlorate	ND	4	1	CA DHSM - IC	µg/L	11/1/99

D.F. - Dilution Factor

ND - Not Detected

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**Reno • Las Vegas
Phoenix • So. California**

Company: **GIES** Attention: **PAUL STUBS**
Address:

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification
07/10/		
10/29/99	NORTH SHORE ROAD TRUCKS	01

[illegible]

Custody Seal intact? Y N None Term 170

Condition when received Good

Hallinguished by (Print)

(Signature)

Date/Time

Received by
(Print)

(Signature)

Date/Time

2 DAN BUTENS

Paul Smith

10/29/99 / 1000

TALLA FORT

Alba Fata

3

CHAIN OF CUSTODY

NEL Work Order: 69910344

Project Name:

Purchase Order Number: 714115

Project Number: 24

97664 V3

Sampled By:

Dan Tsvetov

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including inadequate sample volume and number of containers. Customer signature of the CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard Lab Fees for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround time for the measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.